```
UUU        UUU  EEEEEEEEEEEEEEEE  TTTTTTTTTTTTTTTT  PPPPPPPPPPPP         SSSSSSSSSSSS  YYY           YYY
UUU        UUU  EEEEEEEEEEEEEEEE  TTTTTTTTTTTTTTTT  PPPPPPPPPPPP         SSSSSSSSSSSS  YYY           YYY
UUU        UUU  EEEEEEEEEEEEEEEE  TTTTTTTTTTTTTTTT  PPPPPPPPPPP          SSSSSSSSSSSS  YYY           YYY
UUU        UUU  EEE                    TTT          PPP       PPP  SSS                 YYY           YYY
UUU        UUU  EEE                    TTT          PPP       PPP  SSS                 YYY           YYY
UUU        UUU  EEE                    TTT          PPP       PPP  SSS                 YYY           YYY
UUU        UUU  EEE                    TTT          PPP       PPP  SSS                      YYY   YYY
UUU        UUU  EEE                    TTT          PPP       PPP  SSS                      YYY   YYY
UUU        UUU  EEEEEEEEEEEE           TTT          PPPPPPPPPPPP        SSSSSSSSS                YYY
UUU        UUU  EEEEEEEEEEEE           TTT          PPPPPPPPPPPP        SSSSSSSSS                YYY
UUU        UUU  EEEEEEEEEEEE           TTT          PPPPPPPPPPPP        SSSSSSSSS                YYY
UUU        UUU  EEE                    TTT          PPP                          SSS            YYY
UUU        UUU  EEE                    TTT          PPP                          SSS            YYY
UUU        UUU  EEE                    TTT          PPP                          SSS            YYY
UUU        UUU  EEE                    TTT          PPP                          SSS            YYY
UUU        UUU  EEE                    TTT          PPP                          SSS            YYY
UUUUUUUUUUUUUU  EEEEEEEEEEEEEEEE       TTT          PPP          SSSSSSSSSSSS                    YYY
UUUUUUUUUUUUUU  EEEEEEEEEEEEEEEE       TTT          PPP          SSSSSSSSSSSS                    YYY
UUUUUUUUUUUUUU  EEEEEEEEEEEEEEEE       TTT          PPP          SSSSSSSSSSSS                    YYY
```

SATSSF04

LIS

SATSSF04
V04-000

M 12
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 1
                                        5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
0000        1            .TITLE  SATSSF04 - SATS SYSTEM SERVICE TESTS  (FAILING S.C.)
0000        2            .IDENT  'V04-000'
0000        3
0000        4
0000        5    ;*******************************************************************************
0000        6    ;*                                                                             *
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0000       24    ;*                                                                             *
0000       25    ;*                                                                             *
0000       26    ;*******************************************************************************
0000       27
0000       28
0000       29    ;++
0000       30    ; FACILITY:      SATS SYSTEM SERVICE TESTS
0000       31    ;
0000       32    ; ABSTRACT:      THE SATSSF04 MODULE TESTS THE EXECUTION OF CERTAIN
0000       33    ; VMS SYSTEM SERVICES, INVOKED IN SUCH A WAY AS TO EXPECT FAILING
0000       34    ; STATUS CODES. THE SYSTEM SERVICES TESTED AND THE STATUS CODES
0000       35    ; EXPECTED ARE SUMMARIZED AS ARGUMENTS TO THE TESTSERV MACROS
0000       36    ; WHICH APPEAR NEAR THE END OF THIS LISTING. SUCCESSFUL STATUS
0000       37    ; CODES ARE TESTED IN OTHER MODULES.
0000       38
0000       39
0000       40    ; ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000       41    ;                 DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000       42
0000       43    ; AUTHOR: THOMAS L. CAFARELLA,           CREATION DATE: MMM, 1978
0000       44    ;         PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000       45
0000       46    ; MODIFIED BY:
0000       47    ;
0000       48    ;      . : VERSION
0000       49    ; 01    -
0000       50    ;--
```

```
                  0000      52              .SBTTL  DECLARATIONS
                  0000      53      ;
                  0000      54      ; INCLUDE FILES:
                  0000      55      ;
                  0000      56              $PRVDEF                                    ; SYMBOL DEFS FOR PRIVILEGES
                  0000      57              $UETPDEF                                   ; UETP MSG CODE DEFINITIONS
                  0000      58              $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
                  0000      59                                                        ; DEFINE UETP$_TEXT
                  0000      60                                                        ; GET RID OF MACRO DEFINITIONS
                  0000      61      ;
                  0000      62      ; MACROS:
                  0000      63      ;
                  0000      64      ;
                  0000      65      ; EQUATED SYMBOLS:
                  0000      66      ;
00000000          0000      67 WARNING           = 0                                  ; WARNING SEVERITY VALUE FOR MSGS
00000001          0000      68 SUCCESS           = 1                                  ; SUCCESS SEVERITY VALUE FOR MSGS
00000002          0000      69 ERROR             = 2                                  ; ERROR SEVERITY VALUE FOR MSGS
00000003          0000      70 INFO              = 3                                  ; INFORMATIONAL SEV VALUE FOR MSGS
00000004          0000      71 SEVERE            = 4                                  ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000          0000      72 TCG_NO            = 0                                  ; INITIALIZE TEST CASE GROUP NUMBER
00000000          0000      73 GRP_TOTAL         = 0                                  ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF          0000      74 R0_THRU_SP        = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000000          0000      75 ASTADR_STM        = 0                                  ; ASTADR ARG 4 SETIMR (INDIC NO AST)
00000000          0000      76 DAYTIM_STM20      = 0                                  ; DAYTIM ARG FOR SETIMR (LOCATION 0)
00000001          0000      77 TIMADR_GTT10      = 1                                  ; TIMADR ARG FOR GETTIM (LOCATION 1)
00000001          0000      78 TIMBUF_NMT10      = 1                                  ; TIMBUF ARG FOR NUMTIM (LOCATION 1)
00000001          0000      79 TIMADR_NMT20      = 1                                  ; TIMADR ARG FOR NUMTIM (LOCATION 1)
                  0000      80      ;
                  0000      81      ; ****** THE FOLLOWING ASSIGNMENTS (IN PHD, PCB, STS) ARE BEING MADE
                  0000      82      ; ****** WITHOUT REFERENCE TO $PHDDEF, $PCBDEF, $STSDEF BECAUSE OF
                  0000      83      ; ****** SYMBOL TABLE OVERFLOW. FIX THIS WHEN MORE TABLE SPACE AVAILABLE.
                  0000      84      ;
00000000          0000      85 PHD$Q_PRIVMSK     = 0                                  ; PRIV MASK OFFSET INTO PHD
00000020          0000      86 PCB$L_UIC         = ^X20                               ; UIC OFFSET INTO PCB
0000001C          0000      87 STS$V_INHIB_MSG   = ^X1C                               ; INHIBIT_MSG BIT NUMBER IN MSG CODE
                  0000      88      ;
                  0000      89      ; OWN STORAGE:
                  0000      90      ;
```

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SATSSF04   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49   VAX/VMS Macro V04-00   Page   3
V04-000   DECLARATIONS   5-SEP-1984 04:27:42   [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
                    00000000        92              .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
              BFFC  0000            93 REG_COMP_MASK:  .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
                    0002            94                                 ; REG COMPARE MASK (HIGH-ORDER ...
                    0002            95                                 ; ... BIT MUST BE ON
                    0002            96 ERR_MSG_FAOCTL: STRING  I,<!/!AC!1ZB!1ZB; REGISTER !2UW CONTENTS ALTERED>, -
                    0002            97                         <;  BEFORE SERVICE CALL: !8XL    AFTER SERVICE CALL: !8XL>
                    006E            98 TEST_MOD_NAME:  STRING  C,<SATSSF04>    ; TEST MODULE NAME
                    0077            99 TEST_MOD_BEG:   STRING  C,<begun>       ; DISPOSITION FIELD OF TEST MOD MSG
                    007D           100 TEST_MOD_SUCC:  STRING  C,<successful>  ; DISPOSITION FIELD OF TEST MOD MSG
                    0088           101 TEST_MOD_FAIL:  STRING  C,<failed>      ; DISPOSITION FIELD OF TEST MOD MSG
                    008F           102 TEST_MOD_NAME_D: STRING I,<SATSSF04>    ; TEST MODULE NAME DESCRIPTOR
                    009F           103 TTNAME:         STRING  I,<TT>          ; TERMINAL LOGICAL NAME
00000000'00000000'  00A9          104 INADR:          .LONG   NOACCESS,NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
          00000000' 00B1          105 PROT:           .LONG   PRT$C_NA        ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF  FFFFFFFF  00B5          106 ONES:           .LONG   -1,-1           ; A QUADWORD OF 1-BITS
          0000002B  00BD          107 EFN_STM:        .LONG   43              ; EFN ARGUMENT FOR SETIMR
          FFFFFFFF  00C1          108 EFN_STM10:      .LONG   ^XFFFFFFFF      ; EFN ARGUMENT FOR SETIMR
00000000  00000000  00C5          109 DAYTIM_STM:     .LONG   0,0             ; DAYTIM ARGUMENT FOR SETIMR
          00000000  00CD          110 REQIDT_STM:     .LONG   0               ; REQIDT ARGUMENT FOR SETIMR
          000000D9  00D1          111 TIMADR_GTT11:   .BLKQ   1               ; TIMADR ARGUMENT FOR GETTIM
          000000E7  00D9          112 TIMBUF_NMT11:   .BLKW   7               ; TIMBUF ARGUMENT FOR NUMTIM
00000000  00000000  00E7          113 TIMADR_NMT:     .LONG   0,0             ; TIMADR ARGUMENT FOR NUMTIM
FFE09C4A  FFFFFFFF  00EF          114 TIMADR_NMT23:   .LONG   -1,-<60*24*10000>/7
                    00F7          115                                 ; TIMADR ARGUMENT FOR NUMTIM
                    00F7          116                                 ; (10,000 DAYS IN ...
                    00F7          117                                 ; ... 100-NANOSECOND UNITS)
00000000  00000000  00F7          118 TIMADR_ATM:     .LONG   0,0             ; TIMADR ARGUMENT FOR ASCTIM
FFE09C4A  FFFFFFFF  00FF          119 TIMADR_ATM30:   .LONG   -1,-<60*24*10000>/7
                    0107          120                                 ; TIMADR ARGUMENT FOR ASCTIM
                    0107          121                                 ; (10,000 DAYS IN ...
                    0107          122                                 ; ... 100-NANOSECOND UNITS)
          00000001  0107          123 CVTFLG_ATM:     .LONG 1                 ; CVTFLG ARGUMENT FOR ASCTIM
                    010B          124 TIMBUF_BTM:     STRING  I,<25-DEC-1973 21:46:00.00>
                    012B          125                                 ; TIMBUF ARGUMENT FOR BINTIM
                    012B          126 TIMBUF_BTM10:   STRING  I,<25-DEC-0001 21:46:00.00>
                    014B          127                                 ; TIMBUF ARGUMENT FOR BINTIM
                    014B          128 TIMBUF_BTM11:   STRING  I,<25-DEC-1973 21:61:00.00>
                    016B          129                                 ; TIMBUF ARGUMENT FOR BINTIM
                    016B          130 TIMBUF_BTM12:   STRING  I,<29-FEB-1973 09:14:21.33>
                    018B          131                                 ; TIMBUF ARGUMENT FOR BINTIM
                    018B          132 TIMBUF_BTM13:   STRING  I,<0347  25:10:20.31>
                    01A4          133                                 ; TIMBUF ARGUMENT FOR BINTIM
```

```
        00000000      135              .PSECT  RWDATA,RD,WRT,NOEXE
00000004  0000         136 TPID:           .BLKL   1               ; PROCESS ID FOR THIS PROCESS
0000C008  0004         137 CURRENT_TC:     .BLKL   1               ; PTR TO CURRENT TEST CASE
00000044  0008         138 REG_SAVE_AREA:  .BLKL   15              ; SAVE AREA FOR ALL REGS (SANS PC)
007480D9  0044         139 MOD_MSG_CODE:   .LONG   UETP$_SATSMS    ; TEST MODULE MSG CODE FOR PUTMSG
0000004C  0048         140 CLOB_REG_NO:    .BLKL   1               ; CLOBBERED REG NO (FOR FAO ERR MSG)
00000050  004C         141 REG_BEFORE_SS:  .BLKL   1               ; REG CONTENTS BEFORE S.S.
          0050         142                                         ; ... (FOR FAO ERROR MSG)
00000054  0050         143 REG_AFTER_SS:   .BLKL   1               ; REG CONTENTS AFTER S.S.
          0054         144                                         ; ... (FOR FAO ERROR MSG)
          0054         145 $$TSTN$$:        STRING  C,<   SF   >    ; ASCII PORTION OF TEST CASE NAME
0000006E' 005C         146 TMN_ADDR:       .ADDRESS TEST_MOD_NAME  ; ADDR OF TEST MOD NAME FOR FAO
00000077' 0060         147 TMD_ADDR:       .ADDRESS TEST_MOD_BEG   ; ADDR OF T.M. DISP FIELD FOR FAO
00000068  0064         148 TS_EP:          .BLKL   1               ; ENTRY PNT FOR CURR TESTSERV MACRO
00000070  0068         149 RETADR:         .BLKL   2               ; RETURN LONGWORDS FOR SETPRT
00000071  0070         150 PRVPRT:         .BLKB   1               ; PROT RETURN BYTE FOR SETPRT
00000079  0071         151 PRIVMASK:       .BLKQ   1               ; ADDR OF PRIVILEGE MASK (IN PHD)
0000007D  0079         152 CHM_CONT:       .BLKL   1               ; CHANGE MODE CONTINUE ADDRESS
00000091  007D         153 REGS:           .BLKL   5               ; AREA FOR COND INDEX REGS (R2-R6)
00000095  0091         154 EFN_STM11:      .BLKL  1               ; EFN ARGUMENT FOR SETIMR
00000099  0095         155 EFN_STM12:      .BLKL  1               ; EFN ARGUMENT FOR SETIMR
0000009D  0099         156 EFN_STM13:      .BLKL  1               ; EFN ARGUMENT FOR SETIMR
000000A1  009D         157 EFN_STM14:      .BLKL  1               ; EFN ARGUMENT FOR SETIMR
000000A9  00A1         158 TIMADR_GTT:     .BLKQ   1               ; TIMADR ARGUMENT FOR GETTIM
000000B7  00A9         159 TIMBUF_NMT:     .BLKW   7               ; TIMBUF ARGUMENT FOR NUMTIM
000000B9  00B7         160 TIMLEN_ATM:     .BLKW   1               ; TIMLEN ARGUMENT FOR ASCTIM
          00B9         161 TIMBUF_ATM:      STRING  0,24           ; TIMBUF ARGUMENT FOR ASCTIM
000000E1  00D9         162 TIMADR_BTM:     .BLKQ   1               ; TIMADR ARGUMENT FOR BINTIM
```

```
        00000000   164                   .PSECT  SATS_ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200   0000    165 EMPTY:            .BLKB   512     ; RESERVE A PAGE OF SPACE
           0200    166 ;
           0200    167 ;+
           0200    168 ;**********************************************************************
           0200    169 ;*                                                                    *
           0200    170 ;*    THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.              *
           0200    171 ;*    DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS                   *
           0200    172 ;*    FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE           *
           0200    173 ;*    OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).         *
           0200    174 ;*                                                                    *
           0200    175 ;**********************************************************************
           0200    176 ;-
           02C0    177
000001FF   0200    178 DAYTIM_STM22    = . - 1          ; DAYTIM ARG FOR SETIMR (LAST BYTE IN PAGE)
000001FF   0200    179 TIMADR_GTT12    = . - 1          ; TIMADR ARG FOR GETTIM (LAST BYTE IN PAGE)
000001FF   0200    180 TIMBUF_NMT12    = . - 1          ; TIMBUF ARG FOR NUMTIM (LAST BYTE IN PAGE)
000001FF   0200    181 TIMADR_NMT22    = . - 1          ; TIMADR ARG FOR NUMTIM (LAST BYTE IN PAGE)
           0200    182 ;
           0200    183 ;
           0200    184 ;
           0200    185 ;
        00000000   186                   .PSECT  SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200   0000    187 NOACCESS:         .BLKB   512     ; RESERVE A PAGE OF SPACE
00000000   0200    188                   . = . - 512    ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000'  0000    189                   .ADDRESS EMPTY  ; ADDRESS OF ACCESSIBLE STRING
00000000'  0004    190                   .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
           0008    191 ;+
           0008    192 ; *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
           0008    193 ;    ***         THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
           0008    194 ;    ***         FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
           0008    195 ;    ***         CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
           0008    196 ;-
00000010   0008    197 DAYTIM_STM21:     .BLKQ   1       ; DAYTIM ARGUMENT FOR SETIMR
00000018   0010    198 TIMADR_NMT21:     .BLKQ   1       ; TIMADR ARGUMENT FOR NUMTIM
           0018    199 ;
           0018    200 ;
           0018    201 ;
           0018    202 ;
        00000000   203                   .PSECT  SATSSF04,RD,WRT,EXE,LONG
```

SATSSF04
V04-000

E 13
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 6
SATSSF04   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
0000   205          .SBTTL  SATSSF04
0000   206  ;++
0000   207  ; FUNCTIONAL DESCRIPTION:
0000   208  ;
0000   209  ;          AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000   210  ; PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000   211  ; THE SATSSF04 ROUTINE EXECUTES THE TEST_SERV_EXEC MACRO TO RUN
0000   212  ; ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF04
0000   213  ; PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000   214  ; OPERATING SYSTEM. TEST_SERV_EXEC CALLS THE TC_CONTROL/TESTSERV
0000   215  ; CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000   216  ; CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000   217  ; ITS TEST CASES WITH A TC_GROUP MACRO BEFORE THE FIRST TEST CASE
0000   218  ; AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000   219  ; ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000   220  ; NEXT_TEST_CASE MACRO. TC_CONTROL/TESTSERV EXECUTES THE CODE
0000   221  ; FOLLOWING EACH NEXT_TEST_CASE MACRO IMMEDIATELY BEFORE ISSUING
0000   222  ; THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC_CONTROL/
0000   223  ; TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000   224  ; TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000   225  ; MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000   226  ; NEXT_TEST_CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000   227  ; FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000   228  ; BY THE PREVIOUS TEST CASE.
0000   229  ;
0000   230  ; CALLING SEQUENCE:
0000   231  ;
0000   232  ;     $ RUN SATSSF04  ...  (DCL COMMAND)
0000   233  ;
0000   234  ; INPUT PARAMETERS:
0000   235  ;
0000   236  ;     NONE
0000   237  ;
0000   238  ; IMPLICIT INPUTS:
0000   239  ;
0000   240  ;     NONE
0000   241  ;
0000   242  ; OUTPUT PARAMETERS:
0000   243  ;
0000   244  ;     NONE
0000   245  ;
0000   246  ; IMPLICIT OUTPUTS:
0000   247  ;
0000   248  ;     MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF04.
0000   249  ;     THEY ARE OF THE FORM:
0000   250  ;
0000   251  ;          %UETP-S-SATSMS, TEST MODULE SATSSF04 BEGUN ... (BEGIN MSG)
0000   252  ;          %UETP-S-SATSMS, TEST MODULE SATSSF04 SUCCESSFUL ... (END MSG)
0000   253  ;          %UETP-E-SATSMS, TEST MODULE SATSSF04 FAILED ... (END MSG)
0000   254  ;          %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000   255  ;
0000   256  ; COMPLETION CODES:
0000   257  ;
0000   258  ;     THE SATSSF04 ROUTINE TERMINATES WITH A $EXIT TO THE
0000   259  ;     OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000   260  ;
0000   261  ; SIDE EFFECTS:
```

SATSSF04
V04-000

F 13
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49   VAX/VMS Macro V04-00   Page 7
SATSSF04   5-SEP-1984 04:27:42   [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
                        0000    262  ;
                        0000    263  ;           NONE
                        0000    264  ;
                        0000    265  ;--
                        0000    266  ;
                        0000    267  ;
                        0000    268  ;
                        0000    269  SATSSF04:
                 OFFC   0000    270          .WORD   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                        0002    271                                          ; ENTRY MASK
                        0002    272          $WAKE_S  TPID                   ; GET PID OF THIS PROCESS
                        0011    273          $HIBER_S                        ; UNDO WAKE
                        0018    274          $SETPRN_S TEST_MOD_NAME_D       ; SET PROCESS NAME
                 0EAF   30 0025 275          BSBW    MOD_MSG_PRINT           ; PRINT TEST MODULE BEGIN MSG
00000060'EF   0000007D'EF  DE 0028 276       MOVAL   TEST_MOD_SUCC,TMD_ADDR  ; ASSUME END MSG WILL SHOW SUCCESS
00000044'EF   03  00  01  F0 0033 277        INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                        003C    278          MODE    TO,TO$,KRNL,NOREGS      ; KERNEL MODE TO ACCESS PHD
        59   00000000'9F  DO 0059 279        MOVL    @#CTL$GL_PHD,R9         ; GET PROCESS HEADER ADDRESS
           00000071'EF  69 DE 0060 280        MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                        0067    281          MODE    FROM,TO$                ; GET BACK TO USER MODE
                        0068    282          PRIV    ADD,ALL                 ; GET ALL PRIVILEGES
                        0088    283          DISPSERV                        ; SET UP DISPLAY INFO FOR TESTSERV
                        021D    284          $SETPRT_S INADR=INADR, RETADR=RETADR, -
                        021D    285                  PROT=PROT, PRVPRT=PRVPRT
                        023E    286                                          ; SET NOACCESS PSECT ...
                        023E    287                                          ; ... FOR NO USER ACCESS
                 0B29   31 023E 288           BRW     EXECUTE                ; GO EXECUTE ALL TEST CASES
                        0241    289          TC_GROUP        STM,1,TS1
                        0268    290          NEXT_TEST_CASE  SFSTM10
```

```
0268   291  ;++
0268   292  ;*********************************************************
0268   293  ;*
0268   294  ;*
0268   295  ;*   TEST CASE NAME:          SFSTM10
0268   296  ;*
0268   297  ;*   SYSTEM SERVICE:          SETIMR
0268   298  ;*
0268   299  ;*   ARGUMENT UNDER TEST:     EFN_STM10
0268   300  ;*
0268   301  ;*   INPUT CONDITIONS:
0268   302  ;*      ILLEGAL EVENT FLAG NUMBER
0268   303  ;*
0268   304  ;*   EXPECTED RESULTS:
0268   305  ;*      1) SYSTEM STATUS CODE:  ILLEFC
0268   306  ;*      2) REGISTERS R2 THROUGH FP UNCHANGED
0268   307  ;*
0268   308  ;*********************************************************
0268   309  ;--
0268   310  ;
0268   311  ;
0268   312          NEXT_TEST_CASE  SFSTM11
```

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V04-000

H 13
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 9
SFSTM11   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
                        0274  313 ;
                        0274  314 ;++
                        0274  315 ; *************************************************************
                        0274  316 ; *
                        0274  317 ; *  TEST CASE NAME:          SFSTM11
                        0274  318 ; *
                        0274  319 ; *  SYSTEM SERVICE:          SETIMR
                        0274  320 ; *
                        0274  321 ; *  ARGUMENT UNDER TEST:     EFN_STM11
                        0274  322 ; *
                        0274  323 ; *  INPUT CONDITIONS:
                        0274  324 ; *     ILLEGAL EVENT FLAG NUMBER
                        0274  325 ; *
                        0274  326 ; *  EXPECTED RESULTS:
                        0274  327 ; *     1) SYSTEM STATUS CODE: ILLEFC
                        0274  328 ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
                        0274  329 ; *
                        0274  330 ; *************************************************************
                        0274  331 ;--
                        0274  332 ;
00000091'EF  FF 8F  98  0274  333          CVTBL   #-1,EFN_STM11   ; ILLEGAL EVENT FLAG NUMBER
                        027C  334 ;
                        027C  335          NEXT_TEST_CASE  SFSTM12
```

```
                        0288  336  ;++
                        0288  337  ;
                        0288  338  ; *********************************************************
                        0288  339  ; *
                        0288  340  ; *   TEST CASE NAME:          SFSTM12
                        0288  341  ; *
                        0288  342  ; *   SYSTEM SERVICE:          SETIMR
                        0288  343  ; *
                        0288  344  ; *   ARGUMENT UNDER TEST:     EFN_STM12
                        0288  345  ; *
                        0288  346  ; *   INPUT CONDITIONS:
                        0288  347  ; *      ILLEGAL EVENT FLAG NUMBER
                        0288  348  ; *
                        0288  349  ; *   EXPECTED RESULTS:
                        0288  350  ; *      1) SYSTEM STATUS CODE: ILLEFC
                        0288  351  ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
                        0288  352  ; *
                        0288  353  ; *********************************************************
                        0288  354  ;--
                        0288  355  ;
  00000095'EF  80 8F  9A 0288  356          MOVZBL  #128,EFN_STM12   ; ILLEGAL EVENT FLAG NUMBER
                        0290  357  ;
                        0290  358          NEXT_TEST_CASE  SFSTM13
```

```
                         029C    359 ;++
                         029C    360 ;++
                         029C    361 ; ***********************************************************
                         029C    362 ; *
                         029C    363 ; *   TEST CASE NAME:           SFSTM13
                         029C    364 ; *
                         029C    365 ; *   SYSTEM SERVICE:           SETIMR
                         029C    366 ; *
                         029C    367 ; *   ARGUMENT UNDER TEST:      EFN_STM13
                         029C    368 ; *
                         029C    369 ; *   INPUT CONDITIONS:
                         029C    370 ; *      ILLEGAL EVENT FLAG NUMBER
                         029C    371 ; *
                         029C    372 ; *   EXPECTED RESULTS:
                         029C    373 ; *      1) SYSTEM STATUS CODE: ILLEFC
                         029C    374 ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
                         029C    375 ; *
                         029C    376 ; ***********************************************************
                         029C    377 ;--
                         029C    378 ;
00000099'EF  000000FF 8F  D0 029C    379         MOVL    #255,EFN_STM13  ; ILLEGAL EVENT FLAG NUMBER
                         02A7    380 :
                         02A7    381         NEXT_TEST_CASE  SFSTM14
```

```
                        02B3    382  ;++
                        02B3    383  ;***********************************************************
                        02B3    384  ;*
                        02B3    385  ;*
                        02B3    386  ;*   TEST CASE NAME:          SFSTM14
                        02B3    397  ;*
                        02B3    388  ;*   SYSTEM SERVICE:          SETIMR
                        02B3    389  ;*
                        02B3    390  ;*   ARGUMENT UNDER TEST:     EFN_STM14
                        02B3    391  ;*
                        02B3    392  ;*   INPUT CONDITIONS:
                        02B3    393  ;*      PROCESS NEVER ASSOCIATED WITH SPECIFIED CLUSTER (3).
                        02B3    394  ;*
                        02B3    395  ;*   EXPECTED RESULTS:
                        02B3    396  ;*      1) SYSTEM STATUS CODE: UNASEFC
                        02B3    397  ;*      2) REGISTERS R2 THROUGH FP UNCHANGED
                        02B3    398  ;*
                        02B3    399  ;***********************************************************
                        02B3    400  ;--
                        02B3    401  ;
0000009D'EF  64 8F  9A  02B3    402          MOVZBL  #100,EFN_STM14  ; EVENT FLAG IN UNASSOCIATED CLUSTER
                        02BB    403  ;
                        02BB    404          NEXT_TEST_CASE  SFSTM20
```

```
02C7   405  ;
02C7   406  ;++
02C7   407  ;  **********************************************************
02C7   408  ;  *
02C7   409  ;  *  TEST CASE NAME:            SFSTM20
02C7   410  ;  *
02C7   411  ;  *  SYSTEM SERVICE:            SETIMR
02C7   412  ;  *
02C7   413  ;  *  ARGUMENT UNDER TEST:       DAYTIM_STM20
02C7   414  ;  *
02C7   415  ;  *  INPUT CONDITIONS:
02C7   416  ;  *     EXPIRATION TIME AT LOCATION 0
02C7   417  ;  *
02C7   418  ;  *  EXPECTED RESULTS:
02C7   419  ;  *     1) SYSTEM STATUS CODE: ACCVIO
02C7   420  ;  *     2) REGISTERS R2 THROUGH FP UNCHANGED
02C7   421  ;  *
02C7   422  ;  **********************************************************
02C7   423  ;--
02C7   424  ;
02C7   425           NEXT_TEST_CASE  SFSTM21
```

```
02D3   426  ;
02D3   427  ;++
02D3   428  ; ********************************************************************
02D3   429  ; *
02D3   430  ; *   TEST CASE NAME:            SFSTM21
02D3   431  ; *
02D3   432  ; *   SYSTEM SERVICE:            SETIMR
02D3   433  ; *
02D3   434  ; *   ARGUMENT UNDER TEST:       DAYTIM_STM21
02D3   435  ; *
02D3   436  ; *   INPUT CONDITIONS:
02D3   437  ; *       EXPIRATION TIME IN NON-ACCESSIBLE PSECT
02D3   438  ; *
02D3   439  ; *   EXPECTED RESULTS:
02D3   440  ; *       1) SYSTEM STATUS CODE: ACCVIO
02D3   441  ; *       2) REGISTERS R2 THROUGH FP UNCHANGED
02D3   442  ; *
02D3   443  ; ********************************************************************
02D3   444  ;--
02D3   445  ;
02D3   446          NEXT_TEST_CASE  SFSTM22
```

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V04-000

N 13
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 15
SFSTM22   5-SEP-1984 04:27:42 [UE1PSY.SRC]SATSSF04.MAR;1   (1)

```
02DF    447 ;
02DF    448 ;++
02DF    449 ; ***********************************************************
02DF    450 ; *
02DF    451 ; *   TEST CASE NAME:          SFSTM22
02DF    452 ; *
02DF    453 ; *   SYSTEM SERVICE:          SETIMR
02DF    454 ; *
02DF    455 ; *   ARGUMENT UNDER TEST:     DAYTIM_STM22
02DF    456 ; *
02DF    457 ; *   INPUT CONDITIONS:
02DF    458 ; *      EXPIRATION TIME FIELD BEGINS IN ACCESSIBLE PSECT, ENDS
02DF    459 ; *         IN NON-ACCESSIBLE PSECT.
02DF    460 ; *
02DF    461 ; *   EXPECTED RESULTS:
02DF    462 ; *      1) SYSTEM STATUS CODE: ACCVIO
02DF    463 ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
02DF    464 ; *
02DF    465 ; ***********************************************************
02DF    466 ;--
02DF    467 ;
02DF    468         TCEND
```

```
02E0    469              TC_GROUP        GTT,1,TS2
0307    470              NEXT_TEST_CASE  SFGTT10
```

```
0307   471  ;
0307   472  ;++
0307   473  ;****************************************************************
0307   474  ;  *
0307   475  ;  *   TEST CASE NAME:        SFGTT10
0307   476  ;  *
0307   477  ;  *   SYSTEM SERVICE:        GETTIM
0307   478  ;  *
0307   479  ;  *   ARGUMENT UNDER TEST:   TIMADR_GTT10
0307   480  ;  *
0307   481  ;  *   INPUT CONDITIONS:
0307   482  ;  *      TIME OUTPUT FIELD AT LOCATION 1
0307   483  ;  *
0307   484  ;  *   EXPECTED RESULTS:
0307   485  ;  *      1) SYSTEM STATUS CODE: ACCVIO
0307   486  ;  *      2) REGISTERS R2 THROUGH FP UNCHANGED
0307   487  ;  *
0307   488  ;****************************************************************
0307   489  ;--
0307   490  ;
0307   491          NEXT_TEST_CASE  SFGTT11
```

D 14

SATSSF04   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 18
V04-000   SFGTT11   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
0313    492  ;
0313    493  ;++
0313    494  ;   ***********************************************************
0313    495  ;   *
0313    496  ;   *   TEST CASE NAME:         SFGTT11
0313    497  ;   *
0313    498  ;   *   SYSTEM SERVICE:         GETTIM
0313    499  ;   *
0313    500  ;   *   ARGUMENT UNDER TEST:    TIMADR_GTT11
0313    501  ;   *
0313    502  ;   *   INPUT CONDITIONS:
0313    503  ;   *       TIME OUTPUT FIELD IN READ/ONLY PSECT
0313    504  ;   *
0313    505  ;   *   EXPECTED RESULTS:
0313    506  ;   *       1) SYSTEM STATUS CODE:  ACCVIO
0313    507  ;   *       2) REGISTERS R2 THROUGH FP UNCHANGED
0313    508  ;   *
0313    509  ;   ***********************************************************
0313    510  ;--
0313    511  ;
0313    512          NEXT_TEST_CASE  SFGTT12
```

SATSSF04
V04-000

E 14
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49   VAX/VMS Macro V04-00   Page 19
SFGTT12   5-SEP-1984 04:27:42   [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
031F    513 :
031F    514 :++
031F    515 : ******************************************************************
031F    516 : *
031F    517 : *    TEST CASE NAME:           SFGTT12
031F    518 : *
031F    519 : *    SYSTEM SERVICE:           GETTIM
031F    520 : *
031F    521 : *    ARGUMENT UNDER TEST:      TIMADR_GTT12
031F    522 : *
031F    523 : *    INPUT CONDITIONS:
031F    524 : *        TIME OUTPUT FIELD BEGINS IN ACCESSIBLE PSECT, ENDS
031F    525 : *            IN NON-ACCESSIBLE PSECT.
031F    526 : *
031F    527 : *    EXPECTED RESULTS:
031F    528 : *        1) SYSTEM STATUS CODE: ACCVIO
031F    529 : *        2) REGISTERS R2 THROUGH FP UNCHANGED
031F    530 : *
031F    531 : ******************************************************************
031F    532 :--
031F    533 :
031F    534         TCEND
```

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V04-000

F 14
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 20
                                       5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
0320    535            TC_GROUP        NMT,1,TS3
0347    536            NEXT_TEST_CASE  SFNMT10
```

```
0347   537  ;
0347   538  ;++
0347   539  ; ************************************************************
0347   540  ; *
0347   541  ; *   TEST CASE NAME:          SFNMT10
0347   542  ; *
0347   543  ; *   SYSTEM SERVICE:          NUMTIM
0347   544  ; *
0347   545  ; *   ARGUMENT UNDER TEST:     TIMBUF_NMT10
0347   546  ; *
0347   547  ; *   INPUT CONDITIONS:
0347   548  ; *      TIME BUFFER AT LOCATION 1
0347   549  ; *
0347   550  ; *   EXPECTED RESULTS:
0347   551  ; *      1) SYSTEM STATUS CODE: ACCVIO
0347   552  ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
0347   553  ; *
0347   554  ; ************************************************************
0347   555  ;--
0347   556  ;
0347   557            NEXT_TEST_CASE  SFNMT11
```

```
0353    558  ;
0353    559  ;++
0353    560  ; ***********************************************************
0353    561  ; *
0353    562  ; *   TEST CASE NAME:         SFNMT11
0353    563  ; *
0353    564  ; *   SYSTEM SERVICE:         NUMTIM
0353    565  ; *
0353    566  ; *   ARGUMENT UNDER TEST:    TIMBUF_NMT11
0353    567  ; *
0353    568  ; *   INPUT CONDITIONS:
0353    569  ; *     TIME BUFFER IN READ/ONLY PSECT
0353    570  ; *
0353    571  ; *   EXPECTED RESULTS:
0353    572  ; *     1) SYSTEM STATUS CODE: ACCVIO
0353    573  ; *     2) REGISTERS R2 THROUGH FP UNCHANGED
0353    574  ; *
0353    575  ; ***********************************************************
0353    576  ;--
0353    577  ;
0353    578          NEXT_TEST_CASE  SFNMT12
```

SATSSF04
V04-000

I 14
~ SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49   VAX/VMS Macro V04-00   Page 23
SFNMT12   5-SEP-1984 04:27:42   [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
035F      579  ;
035F      580  ;++
035F      581  ; ****************************************************************
035F      582  ; *
035F      583  ; *   TEST CASE NAME:            SFNMT12
035F      584  ; *
035F      585  ; *   SYSTEM SERVICE:            NUMTIM
035F      586  ; *
035F      587  ; *   ARGUMENT UNDER TEST:       TIMBUF_NMT12
035F      588  ; *
035F      589  ; *   INPUT CONDITIONS:
035F      590  ; *      TIME BUFFER BEGINS IN ACCESSIBLE PSECT, ENDS IN
035F      591  ; *        NON-ACCESSIBLE PSECT.
035F      592  ; *
035F      593  ; *   EXPECTED RESULTS:
035F      594  ; *      1) SYSTEM STATUS CODE:  ACCVIO
035F      595  ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
035F      596  ; *
035F      597  ; ****************************************************************
035F      598  ;--
035F      599  ;
035F      600          NEXT_TEST_CASE  SFNMT20
```

```
036B    601 ;
036B    602 ;++
036B    603 ; ***********************************************************
036B    604 ; *
036B    605 ; *   TEST CASE NAME:           SFNMT20
036B    606 ; *
036B    607 ; *   SYSTEM SERVICE:           NUMTIM
036B    608 ; *
036B    609 ; *   ARGUMENT UNDER TEST:      TIMADR_NMT20
036B    610 ; *
036B    611 ; *   INPUT CONDITIONS:
036B    612 ; *      TIME VALUE AT LOCATION 0
036B    613 ; *
036B    614 ; *   EXPECTED RESULTS:
036B    615 ; *      1) SYSTEM STATUS CODE: ACCVIO
036B    616 ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
036B    617 ; *
036B    618 ; ***********************************************************
036B    619 ;--
036B    620 ;
036B    621         NEXT_TEST_CASE  SFNMT21
```

SATSSF04
V04-000

K 14
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 25
SFNMT21   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (1)

```
0377   622  ;
0377   623  ;++
0377   624  ; ***********************************************************
0377   625  ; *
0377   626  ; *   TEST CASE NAME:          SFNMT21
0377   627  ; *
0377   628  ; *   SYSTEM SERVICE:          NUMTIM
0377   629  ; *
0377   630  ; *   ARGUMENT UNDER TEST:     TIMADR_NMT21
0377   631  ; *
0377   632  ; *   INPUT CONDITIONS:
0377   633  ; *      TIME VALUE IN NON-ACCESSIBLE PSECT
0377   634  ; *
0377   635  ; *   EXPECTED RESULTS:
0377   636  ; *      1) SYSTEM STATUS CODE:  ACCVIO
0377   637  ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
0377   638  ; *
0377   639  ; ***********************************************************
0377   640  ;--
0377   641  ;
0377   642           NEXT_TEST_CASE  SFNMT22
```

SATSSF04
V04-000

L 14
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00
SFNMT22   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   Page 26
                                                                                                          (1)

```
0383   643  ;
0383   644  ;++
0383   645  ;*****************************************************************
0383   646  ; *
0383   647  ; *   TEST CASE NAME:            SFNMT22
0383   648  ; *
0383   649  ; *   SYSTEM SERVICE:            NUMTIM
0383   650  ; *
0383   651  ; *   ARGUMENT UNDER TEST:       TIMADR_NMT22
0383   652  ; *
0383   653  ; *   INPUT CONDITIONS:
0383   654  ; *      TIME VALUE BEGINS IN ACCESSIBLE PSECT, ENDS
0383   655  ; *        IN NON-ACCESSIBLE PSECT.
0383   656  ; *
0383   657  ; *   EXPECTED RESULTS:
0383   658  ; *      1) SYSTEM STATUS CODE:  ACCVIO
0383   659  ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
```

SATSSF04
V04-000

M 14
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 27
SFNMT22   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
0383   661 ; *
0383   662 ; *************************************************************
0383   663 ;--
0383   664 ;
0383   665           NEXT_TEST_CASE  SFNMT23
```

SATSSF04
V04-000

N 14
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00
SFNMT23   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   Page 28
                                                                                              (2)

```
038F    666  ;
038F    667  ;++
038F    668  ;*************************************************************
038F    669  ;  *
038F    670  ;  *  TEST CASE NAME:          SFNMT23
038F    671  ;  *
038F    672  ;  *  SYSTEM SERVICE:          NUMTIM
038F    673  ;  *
038F    674  ;  *  ARGUMENT UNDER TEST:     TIMADR_NMT23
038F    675  ;  *
038F    676  ;  *  INPUT CONDITIONS:
038F    677  ;  *     DELTA TIME VALUE EXCEEDS 9999 DAYS
038F    678  ;  *
038F    679  ;  *  EXPECTED RESULTS:
038F    680  ;  *     1) SYSTEM STATUS CODE:  IVTIME
038F    681  ;  *     2) REGISTERS R2 THROUGH FP UNCHANGED
038F    682  ;  *
038F    683  ;*************************************************************
038F    684  ;--
038F    685  ;
038F    686          TCEND
```

```
0390    687 ;
0390    688 ;            TC_GROUP        ATM,1,TS4
03B7    689 ;
03B7    690 ;            NEXT_TEST_CASE  SFATM30
```

SATSSF04
V04-000

C 15
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 30
SFATM30   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
03B7    691 ;
03B7    692 ;++
03B7    693 ; ***********************************************************
03B7    694 ; *
03B7    695 ; *   TEST CASE NAME:            SFATM30
03B7    696 ; *
03B7    697 ; *   SYSTEM SERVICE:            ASCTIM
03B7    698 ; *
03B7    699 ; *   ARGUMENT UNDER TEST:       TIMADR_ATM30
03B7    700 ; *
03B7    701 ; *   INPUT CONDITIONS:
03B7    702 ; *      DELTA TIME VALUE EXCEEDS 9999 DAYS
03B7    703 ; *
03B7    704 ; *   EXPECTED RESULTS:
03B7    705 ; *      1) SYSTEM STATUS CODE:  IVTIME
03B7    706 ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
03B7    707 ; *
03B7    708 ; ***********************************************************
03B7    709 ;--
03B7    710 ;
03B7    711 ;
03B7    712         TCEND
```

```
03B8   713   ;        TC_GROUP        BTM,1,TS5
03DF   714   ;
03DF   715   ;        NEXT_TEST_CASE  SFBTM10
```

SATSSF04
V04-000

E 15
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49   VAX/VMS Macro V04-00
SFBTM10   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   Page 32
                                                                                                             (2)

```
03DF   716 ;
03DF   717 ;++
03DF   718 ; ********************************************************
03DF   719 ; *
03DF   720 ; *   TEST CASE NAME:          SFBTM10
03DF   721 ; *
03DF   722 ; *   SYSTEM SERVICE:          BINTIM
03DF   723 ; *
03DF   724 ; *   ARGUMENT UNDER TEST:     TIMBUF_BTM10
03DF   725 ; *
03DF   726 ; *   INPUT CONDITIONS:
03DF   727 ; *      INVALID ABSOLUTE TIME (YEAR SPECIFIED IS
03DF   728 ; *        EARLIER THAN SYSTEM BASE).
03DF   729 ; *
03DF   730 ; *   EXPECTED RESULTS:
03DF   731 ; *      1) SYSTEM STATUS CODE:  IVTIME
03DF   732 ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
03DF   733 ; *
03DF   734 ; ********************************************************
03DF   735 ;--
03DF   736 ;
03DF   737 ;
03DF   738           NEXT_TEST_CASE  SFBTM11
```

SATSSF04
V04-000

F 15
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 33
SFBTM11   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
03EB    739 :
03EB    740 :++
03EB    741 ; ************************************************************
03EB    742 ; *
03EB    743 ; *   TEST CASE NAME:          SFBTM11
03EB    744 ; *
03EB    745 ; *   SYSTEM SERVICE:          BINTIM
03EB    746 ; *
03EB    747 ; *   ARGUMENT UNDER TEST:     TIMBUF_BTM11
03EB    748 ; *
03EB    749 ; *   INPUT CONDITIONS:
03EB    750 ; *      INVALID ABSOLUTE TIME (MINUTES FIELD
03EB    751 ; *         OUT OF RANGE).
03EB    752 ; *
03EB    753 ; *   EXPECTED RESULTS:
03EB    754 ; *      1) SYSTEM STATUS CODE:  IVTIME
03EB    755 ; *      2) REGISTERS R2 THROUGH FP UNCHANGED
03EB    756 ; *
03EB    757 ; ************************************************************
03EB    758 ;--
03EB    759 :
03EB    760 :
03EB    761         NEXT_TEST_CASE  SFBTM12
```

SATSSF04
V04-000

G 15
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 34
SFBTM12   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
03F7   762 :
03F7   763 :++
03F7   764 :
03F7   765 : *   ********************************************************
03F7   766 : *   TEST CASE NAME:          SFBTM12
03F7   767 : *
03F7   768 : *   SYSTEM SERVICE:          BINTIM
03F7   769 : *
03F7   770 : *   ARGUMENT UNDER TEST:     TIMBUF_BTM12
03F7   771 : *
03F7   772 : *   INPUT CONDITIONS:
03F7   773 : *      INVALID ABSOLUTE TIME (NON-EXISTENT DATE).
03F7   774 : *
03F7   775 : *   EXPECTED RESULTS:
03F7   776 : *      1) SYSTEM STATUS CODE: IVTIME
03F7   777 : *      2) REGISTERS R2 THROUGH FP UNCHANGED
03F7   778 : *
03F7   779 : *   ********************************************************
03F7   780 :--
03F7   781 :
03F7   782 :
03F7   783          NEXT_TEST_CASE  SFBTM13
```

```
0403   784 ;
0403   785 ;++
0403   786 ;********************************************************************
0403   787 ;  *
0403   788 ;  *   TEST CASE NAME:          SFBTM13
0403   789 ;  *
0403   790 ;  *   SYSTEM SERVICE:          BINTIM
0403   791 ;  *
0403   792 ;  *   ARGUMENT UNDER TEST:     TIMBUF_BTM13
0403   793 ;  *
0403   794 ;  *   INPUT CONDITIONS:
0403   795 ;  *      INVALID DELTA TIME (HOURS FIELD
0403   796 ;  *        OUT OF RANGE).
0403   797 ;  *
0403   798 ;  *   EXPECTED RESULTS:
0403   799 ;  *      1) SYSTEM STATUS CODE:  IVTIME
0403   800 ;  *      2) REGISTERS R2 THROUGH FP UNCHANGED
0403   801 ;  *
0403   802 ;********************************************************************
0403   803 ;--
0403   804 ;
0403   805 ;
0403   806         TCEND
```

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SATSSF04   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 36
V04-000   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
0404   807 TS1:
0404   808            TESTSERV        SETIMR,ERR,SATS,                                            =
0404   809                                                                                  -
0404   810            <1,EFN_STM,
0404   811                            EFN_STM10,ILLEFC,       -  : SFSTM10
0404   812                            EFN_STM11,ILLEFC,       -  ;  SFSTM11
0404   813                            EFN_STM12,ILLEFC,       -  ;  SFSTM12
0404   814                            EFN_STM13,ILLEFC,       -  ;  SFSTM13
0404   815                            EFN_STM14,UNASEFC,      -  ;; SFSTM14
0404   816                                                    >,                             =
0404   817                                                                                   =
0404   818            <1,DAYTIM_STM,
0404   819                            DAYTIM_STM20,ACCVIO,    -  : SFSTM20
0404   820                            DAYTIM_STM21,ACCVIO,    -  ;  SFSTM21
0404   821                            DAYTIM_STM22,ACCVIO,    -  ;; SFSTM22
0404   822                                                    >,                             =
0404   823                                                                                   =
0404   824            <1,ASTADR_STM,                                                          =
0404   825                                                    >,                             =
0404   826                                                                                   =
0404   827            <1,REQIDT_STM,                                                          =
0404   828                                                    >,                             =
0404   829                                                                                   =
06AA   830   TS_CLEANUP                 ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
06CA    831 TS2:
06CA    832          TESTSERV        GETTIM,ERR,SATS,                                    -
06CA    833                                                                              -
06CA    834            <1,TIMADR_GTT,                                                    -
06CA    835                             TIMADR_GTT10,ACCVIO,      -  ; SFGTT10
06CA    836                             TIMADR_GTT11,ACCVIO,      -  ; SFGTT11
06CA    837                             TIMADR_GTT12,ACCVIO,      -  ; SFGTT12
06CA    838                                                    >,                        -
06CA    839
079D    840          TS_CLEANUP               ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
07BD    841 TS3:
07BD    842              TESTSERV         NUMTIM,ERR,SATS,                                    -
07BD    843                                                                                   -
07BD    844                 <1,TIMBUF_NMT,
07BD    845                                TIMBUF_NMT10,ACCVIO,     -  ; SFNMT10
07BD    846                                TIMBUF_NMT11,ACCVIO,     -  ; SFNMT11
07BD    847                                TIMBUF_NMT12,ACCVIO,     -  ; SFNMT12
07BD    848                                                  >,                              -
07BD    849                                                                                   -
07BD    850                 <1,TIMADR_NMT,                                                    -
07BD    851                                TIMADR_NMT20,ACCVIO,     -  ; SFNMT20
07BD    852                                TIMADR_NMT21,ACCVIO,     -  ; SFNMT21
07BD    853                                TIMADR_NMT22,ACCVIO,     -  ; SFNMT22
07BD    854                                TIMADR_NMT23,IVTIME,     -  ; SFNMT23
07BD    855                                                  >,                              -
07BD    856
0939    857              TS_CLEANUP                 ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

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SATSSF04   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 39
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```
0959    858 TS4:
0959    859              TESTSERV           ASCTIM,ERR,SATS,                                     -
0959    860                                                                                      -
0959    861                  <1,TIMLEN_ATM,                                                      -
0959    862                                                                >,                    -
0959    863                                                                                      -
0959    864                  <1,TIMBUF_ATM,                                                      -
0959    865                                                                >,                    -
0959    866                                                                                      -
0959    867                  <1,TIMADR_ATM,                                                      -
0959    868                               TIMADR_ATM30,IVTIME,    -  ; SFATM30
0959    869                                                                >,                    -
0959    870                                                                                      -
0959    871                  <1,CVTFLG_ATM,                                                      -
0959    872                                                                >,                    -
0959    873
0BC7    874      TS_CLEANUP                      ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
                    0BE7    875 TS5:
                    0BE7    876            TESTSERV         BINTIM,ERR,SATS,                                              -
                    0BE7    877                                                                                          -
                    0BE7    878              <1,TIMBUF_BTM,                                                              -
                    0BE7    879                              TIMBUF_BTM10,IVTIME,     -  ; SFBTM10
                    0BE7    880                              TIMBUF_BTM11,IVTIME,     -  ; SFBTM11
                    0BE7    881                              TIMBUF_BTM12,IVTIME,     -  ; SFBTM12
                    0BE7    882                              TIMBUF_BTM13,IVTIME,     -  ; SFBTM13
                    0BE7    883                                                        >,
                    0BE7    884                                                                                          -
                    0BE7    885              <1,TIMADR_BTM,                                                              -
                    0BE7    886                                                        >,                                -
                    0BE7    887
                    0D4A    888            TS_CLEANUP               ; CLEAN UP & RETURN TO TEST_SERV_EXEC
```

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 41
EXECUTE & CLEANUP   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
                        0D6A    889              .SBTTL  EXECUTE & CLEANUP
                        0D6A    890  EXECUTE:
                        0D6A    891              TEST_SERV_EXEC                        ; EXECUTE ALL T. CASES IN ALL GROUPS
                        0D9C    892  CLEANUP:
                 0138   30 0D9C 893              BSBW    MOD_MSG_PRINT                 ; PRINT TEST MODULE END MSG
00000044'EF  01  1C  01 F0 0D9F 894              INSV    #1,#STS$V_INHIB_MSG,#1,MOD_MSG_CODE
                        0DA8    895                                                    ; INHIBIT PRINTING
                        0DA8    896              $EXIT_S MOD_MSG_CODE                  ; EXIT TO OP SYS WITH MSG CODE
```

```
                    0DB5    898                       .SBTTL  TC_CONTROL
                    0DB5    899    ;++
                    0DB5    900    ; FUNCTIONAL DESCRIPTION:
                    0DB5    901    ;
                    0DB5    902    ;              THE TC_CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
                    0DB5    903    ; MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
                    0DB5    904    ; MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
                    0DB5    905    ; TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
                    0DB5    906    ; STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
                    0DB5    907    ; SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
                    0DB5    908    ; DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
                    0DB5    909    ; CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
                    0DB5    910    ; IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
                    0DB5    911    ; TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
                    0DB5    912    ; THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
                    0DB5    913    ; THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
                    0DB5    914    ; STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
                    0DB5    915    ; IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
                    0DB5    916    ; RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
                    0DB5    917    ; FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
                    0DB5    918    ; IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
                    0DB5    919    ; TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
                    0DB5    920    ;
                    0DB5    921    ; CALLING SEQUENCE:
                    0DB5    922    ;
                    0DB5    923    ;       BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
                    0DB5    924    ;                       (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
                    0DB5    925    ;
                    0DB5    926    ; INPUT PARAMETERS:
                    0DB5    927    ;
                    0DB5    928    ;       NONE
                    0DB5    929    ;
                    0DB5    930    ; IMPLICIT INPUTS:
                    0DB5    931    ;
                    0DB5    932    ;       ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
                    0DB5    933    ;       INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
                    0DB5    934    ;
                    0DB5    935    ; OUTPUT PARAMETERS:
                    0DB5    936    ;
                    0DB5    937    ;       SEVERITY CODE FIELD OF MOD_MSG_CODE (BITS 0,1,2) IS SET TO ERROR
                    0DB5    938    ;       IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
                    0DB5    939    ;       SET TO SUCCESSFUL.
                    0DB5    940    ;
                    0DB5    941    ; IMPLICIT OUTPUTS:
                    0DB5    942    ;
                    0DB5    943    ;       %UETP-I-TEXT,   ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
                    0DB5    944    ;                       THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
                    0DB5    945    ;
                    0DB5    946    ; COMPLETION CODES:
                    0DB5    947    ;
                    0DB5    948    ;       NONE
                    0DB5    949    ;
                    0DB5    950    ; SIDE EFFECTS:
                    0DB5    951    ;
                    0DB5    952    ;       NONE
                    0DB5    953    ;
                    0DB5    954    ;--
```

```
                              0DB5    955
                              0DB5    956
                              0DB5    957
                              0DB5    958  TC_CONTROL:
         00000064'EF    DD    0DB5    959         PUSHL   TS_EP                      ; PUSH TESTSERV ENTRY POINT
                  9E    16    0DBB    960         JSB     @(SP)+                     ; ENTER TESTSERV INITIALIZATION
                              0DBD    961  10$:                                      ; PROCESS NEXT TEST CASE
         00000056'EF    20    90  0DBD  962       MOVB    #^A/ /,$$TSTN$$+2          ; MAKE SURE T.C. NAME HAS A BLANK
                002F    30    0DC4    963         BSBW    REG_SAVE                   ; SAVE REGISTERS
         00000004'FF    16    0DC7    964         JSB     @CURRENT_TC                ; JUMP TO CURRENT TEST CASE
                0037    30    0DCD    965         BSBW    REG_REST                   ; RESTORE REGS FOR TESTSERV
                  9E    16    0DD0    966         JSB     @(SP)+                     ; LET TESTSERV ISSUE SYSTEM SERVICE
                0042    30    0DD2    967         BSBW    REG_COMP                   ; COMPARE REGS TO SEE IF ...
                              0DD5    968                                           ; ... SYSTEM SERVICE CHANGED ANY
                  9E    16    0DD5    969         JSB     @(SP)+                     ; LET TESTSERV CHEK S.S. STATUS CODE
         00000056'EF    2A    91  0DD7  970       CMPB    #^A/*/,$$TSTN$$+2          ; HAS TESTSERV INDICATED FAILURE ?
                  DD    12    0DDE    971         BNEQU   10$                        ; NO -- PROCESS NEXT TEST CASE
 00000060'EF  00000088'EF  DE  0DE0   972         MOVAL   TEST_MOD_FAIL,TMD_ADDR     ; YES -- INDICATE FAILED IN END MSG
 00000044'EF  03  00  02  F0  0DEB    973         INSV    #ERROR,#0,#3,MOD_MSG_CODE  ; ADJUST STATUS CODE FOR ERROR
                  C7    11    0DF4    974         BRB     10$                        ; LOOP BAK TO PROCESS NEXT TEST CASE
                              0DF6    975  ;
                              0DF6    976  ;   TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO)
                              0DF6    977  ;
```

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SATSSF04   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 44
V04-000   SUBROUTINES   5-SEP-1984 04:27:42 [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
                              ODF6    979              .SBTTL  SUBROUTINES
                              ODF6    980  REG_SAVE:
                              ODF6    981  ;
                              ODF6    982  ; ****************************************************************
                              ODF6    983  ; *                                                              *
                              ODF6    984  ; *   SAVES R0 THRU SP IN REG_SAVE_AREA                           *
                              ODF6    985  ; *                                                              *
                              ODF6    986  ; ****************************************************************
                              ODF6    987  ;
              7FFF 8F  BB     ODF6    988              PUSHR   #R0_THRU_SP             ; SAVE ALL REGS ON STACK
00000008'EF   6E   3C  28     ODFA    989              MOVC3   #60,(SP),REG_SAVE_AREA  ; SAVE REGS (BEFORE S.S.)
              7FFF 8F  BA     0E02    990              POPR    #R0_THRU_SP             ; CLEAN UP STACK
                       05     0E06    991              RSB                            ; .... AND RETURN
                              0E07    992  ;
                              0E07    993  ;
                              0E07    994  ;
                              0E07    995  ;
                              0E07    996  REG_REST:
                              0E07    997  ;
                              0E07    998  ;
                              0E07    999  ; ****************************************************************
                              0E07   1000  ; *                                                              *
                              0E07   1001  ; *   RESTORES R0 THRU SP FROM REG_SAVE_AREA                      *
                              0E07   1002  ; *                                                              *
                              0E07   1003  ; ****************************************************************
                              0E07   1004  ;
              5E   3C  C2     0E07   1005              SUBL2   #60,SP                  ; MOVE SP TO MAKE ROOM FOR REGS
6E   00000008'EF  3C  28     0E0A   1006              MOVC3   #60,REG_SAVE_AREA,(SP)  ; MOVE REGS ONTO STACK FOR POP
              7FFF 8F  BA     0E12   1007              POPR    #R0_THRU_SP             ; RESTORE ALL REGS FOR TESTSERV
                       05     0E16   1008              RSB                            ; ... AND RETURN
```

```
                        0E17  1010  REG_COMP:
                        0E17  1011  :
                        0E17  1012  : ********************************************************************
                        0E17  1013  : *                                                                  *
                        0E17  1014  : *  1) PUSHES ALL REGS ONTO STACK                                   *
                        0E17  1015  : *  2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING        *
                        0E17  1016  : *        IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED      *
                        0E17  1017  : *        IN REG_COMP_MASK.                                          *
                        0E17  1018  : *  3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED         *
                        0E17  1019  : *        (USING $FAO AND $OUTPUT SYSTEM SERVICES).                  *
                        0E17  1020  : *  4) POPS ALL REGS OFF OF STACK                                    *
                        0E17  1021  : *                                                                  *
                        0E17  1022  : ********************************************************************
                        0E17  1023  :
           7FFF 8F  BB  0E17  1024          PUSHR   #R0_THRU_SP           ; SAVE ALL REGISTERS ON STACK
    56  00000008'EF DE  0E1B  1025          MOVAL   REG_SAVE_AREA,R6      ; POINT R6 TO BEG OF ...
                        0E22  1026                                       ; ... REGS (BEFORE S.S.)
           54   5E  D0  0E22  1027          MOVL    SP,R4                ; POINT R4 TO BEG OF
                        0E25  1028                                       ; ... REGS (AFTER S.S.)
           53   FF 8F 98  0E25  1029        CVTBL   #-1,R3               ; INITIALIZE REG_COMP_MASK INDEX
                        0E29  1030  REG_COMP_NEXT:
           53   D6  0E29  1031               INCL    R3                  ; POINT TO NEXT BIT IN MASK
        53   0F  91  0E2B  1032               CMPB    #15,R3              ; END OF THE MASK ?
             03   1A  0E2E  1033               BGTRU   REG_COMP_CONT       ; NO -- CONTINUE
            009F   31  0E30  1034               BRW     REG_COMP_RSB        ; YES -- GO TO COMMON RETURN
                        0E33  1035  REG_COMP_CONT:
           84   86  D1  0E33  1036               CMPL    (R6)+,(R4)+         ; REG BEFORE = REG AFTER ?
                 F1   13  0E36  1037               BEQLU   REG_COMP_NEXT       ; YES -- LOOK FOR NEXT REG
 E9 00000000'EF 53 E1  0E38  1038               BBC     R3,REG_COMP_MASK,REG_COMP_NEXT
                        0E40  1039                                       ; NO -- GET NEXT IF BIT NOT SET
    00000048'EF   53  D0  0E40  1040             MOVL    R3,CLOB_REG_NO      ; NO -- GIVE REG NUMBER TO FAO
 0000004C'EF   FC A6 D0  0E47  1041             MOVL    -4(R6),REG_BEFORE_SS ; GIVE 'BEFORE' CONTENTS TO FAO
 00000050'EF   FC A4 D0  0E4F  1042             MOVL    -4(R4),REG_AFTER_SS  ; GIVE "AFTER" CONTENTS TO FAO
 00000056'EF   2A  90  0E57  1043               MOVB    #^A/*/,$$TSTN$$+2   ; GIVE FAILURE INDIC'N IN ERROR MSG
                        0E5E  1044  :
                        0E5E  1045          $FAO_S  ERR_MSG,FAOCTL,OUTL,OUTD,$$SNAD$$, -
                        0E5E  1046                  $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
                        0E91  1047  :
  F27C CF  F246 CF B0  0E91  1048          MOVW    OUTL,OUTD            ; ACTUAL OUTPUT LEN IN STRING DESC'R
                        0E98  1049          PUTMSG  <UETP$_TEXT,#1,#OUTD> ; PRINT THE MSG
  F260 CF  0084 8F B0  0EAD  1050          MOVW    #OUTE-OUTB,OUTD       ; GET MAX LEN BACK INTO DESCRIPTOR
    00000056'EF   20  90  0EB4  1051        MOVB    #^A/ /,$$TSTN$$+2   ; REMOVE FAIL INDIC'N FOR NEXT MSG
 00000060'EF 00000088'EF DE  0EBB  1052     MOVAL   TEST_MOD_FAIL,TMD_ADDR ; INDICATE FAILED IN END MSG
 00000044'EF 03 00 02 F0  0EC6  1053        INSV    #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
             FF57   31  0ECF  1054               BRW     REG_COMP_NEXT       ; GO LOOK FOR NEXT REG TO COMPARE
                        0ED2  1055  REG_COMP_RSB:
           7FFF 8F  BA  0ED2  1056          POPR    #R0_THRU_SP          ; CLEAN UP STACK
                 05  0ED6  1057               RSB                        ; RETURN TO CALLER
```

```
            OED7   1059 MOD_MSG_PRINT:
            OED7   1060 ;
            OED7   1061 ;   ******************************************************************
            OED7   1062 ;   *                                                                *
            OED7   1063 ;   *   PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES       *
            OED7   1064 ;   *       (USING THE PUTMSG MACRO).                                 *
            OED7   1065 ;   *                                                                *
            OED7   1066 ;   ******************************************************************
            OED7   1067 ;
            OED7   1068          PUTMSG  <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR>  ; PRINT MSG
      05    OEF2   1069          RSB                                         ; ... AND RETURN TO CALLER
            OEF3   1070 ;
            OEF3   1071 CHMRTN:
            OEF3   1072 ;   ******************************************************************
            OEF3   1073 ;   *                                                                *
            OEF3   1074 ;   *   CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER       *
            OEF3   1075 ;   *   A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED           *
            OEF3   1076 ;   *   BY THE MODE MACRO ('TO' OPTION).  IT MERELY DOES              *
            OEF3   1077 ;   *   A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS             *
            OEF3   1078 ;   *   THE EFFECT OF RETURNING TO THE END OF THE MODE                *
            OEF3   1079 ;   *   MACRO EXPANSION.                                              *
            OEF3   1080 ;   *                                                                *
            OEF3   1081 ;   ******************************************************************
            OEF3   1082 ;
      0000  OEF3   1083          .WORD   0                       ; ENTRY MASK
00000079'FF  17    OEF5   1084          JMP     @CHM_CONT               ; RETURN TO MODE MACRO IN NEW MODE
            OEFB   1085 ;
            OEFB   1086 ; *    RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
            OEFB   1087 ;
            OEFB   1088          .END    SATSSF04
```

$$$CHARS	= 00000048			PRIV_ARGS	= 00000002		
$$$FIRSTTC$$$	= 00000000			PROT	000000B1 R		02
$$$STRINGS	= 00000000			PRT$C_NA	*******	X	02
$$ACT$$	000000F3 R		06	PRVPRT	00000070 R		03
$$ARG$$	000000FB R		06	R0_THRU_SP	= 00007FFF		
$$ASEQ$$	000000EB R		06	REGS	0000007D R		03
$$CALL$$	000000DF R		06	REG_AFTER_SS	00000050 R		03
$$DISP$$	000001E6 R		06	REG_BEFORE_SS	0000004C R		03
$$ERR$$	000001A0 R		06	REG_COMP	00000E17 R		06
$$EXP$$	000000F7 R		06	REG_COMP_CONT	00000E33 R		06
$$INIT$$	000000E3 R		06	REG_COMP_MASK	00000000 R		02
$$MAXP$$	= 00000005			REG_COMP_NEXT	00000E29 R		06
$$PSEQ$$	000000EF R		06	REG_COMP_RSB	00000ED2 R		06
$$SNAD$$	000000E7 R		06	REG_REST	00000E07 R		06
$$T1	= 00000004			REG_SAVE	00000DF6 R		06
$$T2	= 00000009			REG_SAVE_AREA	00000008 R		03
$$TSTN$$	00000054 R		03	REQIDT_STM	000000CD R		02
ASTADR_STM	= 00000000			RETADR	00000068 R		03
CHMRTN	00000EF3 R		06	SATSSF04	00000000 R		06
CHM_CONT	00000079 R		03	SEVERE	= 00000004		
CLEANUP	00000D9C R		06	SHR$K_SHRDEF	= 00000001		
CLOB_REG_NO	00000048 R		03	SHR$_TEXT	= 00001130		
CTL$GL_PRD	*******	X	06	SS$_ACCVIO	*******	X	06
CURRENT_TC	00000004 R		03	SS$_ILLEFC	*******	X	06
CVTFLG_ATM	00000107 R		02	SS$_IVTIME	*******	X	06
DAYTIM_STM	000000C5 R		02	SS$_UNASEFC	*******	X	06
DAYTIM_STM20	= 00000000			STS$V_INHIB_MSG	= 0000001C		
DAYTIM_STM21	00000008 R		05	SUCCESS	= 00000001		
DAYTIM_STM22	= 000001FF R		04	SYS$ASCTIM	*******	GX	06
EFN_STM	000000BD R		02	SYS$BINTIM	*******	GX	06
EFN_STM10	000000C1 R		02	SYS$CMKRNL	*******	GX	06
EFN_STM11	00000091 R		03	SYS$EXIT	*******	GX	06
EFN_STM12	00000095 R		03	SYS$FAO	*******	X	06
EFN_STM13	00000099 R		03	SYS$FAOL	*******		06
EFN_STM14	0000009D R		03	SYS$GETTIM	*******	GX	06
EMPTY	00000000 R		04	SYS$HIBER	*******	GX	06
ERROR	= 00000002			SYS$NUMTIM	*******	GX	06
ERR_MSG_FAOCTL	00000002 R		02	SYS$SETIMR	*******	GX	06
EXECUTE	00000D6A R		06	SYS$SETPRN	*******	GX	06
GRP_TOTAL	= 00000005			SYS$SETPRT	*******	GX	06
INADR	000000A9 R		02	SYS$SETPRV	*******	GX	06
INFO	= 00000003			SYS$WAKE	*******	GX	06
LIB$SIGNAL	*******	X	06	TC1	00000241 R		06
MEXIT	= 00000000			TC2	000002E0 R		06
MOD_MSG_CODE	00000044 R		03	TC3	00000320 R		06
MOD_MSG_PRINT	00000ED7 R		06	TC4	00000390 R		06
NARGS	= 0000000E			TC5	000003B8 R		06
NOACCESS	= 00000000 R		05	TCG_NO	= 00000005		
NSSARGS	= 00000002			TC_CONTROL	00000DB5 R		06
ONES	000000B5 R		02	TEST_MOD_BEG	00000077 R		02
OUTB	0000011C R		06	TEST_MOD_FAIL	00000088 R		02
OUTD	00000114 R		06	TEST_MOD_NAME	0000006E R		02
OUTE	000001A0 R		06	TEST_MOD_NAME_D	0000008F R		02
OUTL	000000DB R		06	TEST_MOD_SUCC	0000007D R		02
PCB$L_UIC	= 00000020			TIMADR_ATM	000000F7 R		02
PHD$Q_PRIVMSK	= 00000000			TIMADR_ATM30	000000FF R		02
PRIVMASK	00000071 R		03	TIMADR_BTM	000000D9 R		03

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SATSSF04   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:32:49 VAX/VMS Macro V04-00   Page 48
Symbol table   5-SEP-1984 04:27:42   [UETPSY.SRC]SATSSF04.MAR;1   (2)

```
TIMADR_GTT                    000000A1 R      03
TIMADR_GTT10              =    00000001
TIMADR_GTT11                  000000D1 R      02
TIMADR_GTT12             =    000001FF R      04
TIMADR_NMT                    000000E7 R      02
TIMADR_NMT20             =    00000001
TIMADR_NMT21                  00000010 R      05
TIMADR_NMT22             =    000001FF R      04
TIMADR_NMT23                  000000EF R      02
TIMBUF_ATM                    000000B9 R      03
TIMBUF_BTM                    0000010B R      02
TIMBUF_BTM10                  0000012B R      02
TIMBUF_BTM11                  0000014B R      02
TIMBUF_BTM12                  0000016B R      02
TIMBUF_BTM13                  0000018B R      02
TIMBUF_NMT                    000000A9 R      03
TIMBUF_NMT10             =    00000001
TIMBUF_NMT11                  000000D9 R      02
TIMBUF_NMT12            =    000001FF R      04
TIMLEN_ATM                    000000B7 R      03
TMD_ADDR                      00000060 R      03
TMN_ADDR                      0000005C R      03
TPID                          00000000 R      03
TS1                           00000404 R      06
TS2                           000006CA R      06
TS3                           0000078D R      06
TS4                           00000959 R      06
TS5                           00000BE7 R      06
TS_EP                         00000064 R      03
TTNAME                        0000009F R      02
UETP$_SATSMS            =    007480D9
UETP$_TEXT             =    00741133
WARNING                =    00000000
```

```
+------------------+
! Psect synopsis !
+------------------+
```

```
PSECT name              Allocation          PSECT No.   Attributes
----------              ----------          ---------   ----------
.  ABS  .              00000000 (     0.)   00 (  0.)   NOPIC  USR  CON  ABS  LCL  NOSHR  NOEXE  NORD   NOWRT  NOVEC  BYTE
$ABS$                  00000000 (     0.)   01 (  1.)   NOPIC  USR  CON  ABS  LCL  NOSHR  EXE    RD     WRT    NOVEC  BYTE
RODATA                 000001A4 (   420.)   02 (  2.)   NOPIC  USR  CON  REL  LCL  NOSHR  NOEXE  RD     NOWRT  NOVEC  LONG
RWDATA                 000000E1 (   225.)   03 (  3.)   NOPIC  USR  CON  REL  LCL  NOSHR  NOEXE  RD     WRT    NOVEC  BYTE
SATS_ACCVIO_1          00000200 (   512.)   04 (  4.)   NOPIC  USR  CON  REL  LCL  NOSHR  NOEXE  RD     WRT    NOVEC  PAGE
SATS_ACCVIO_2          00000200 (   512.)   05 (  5.)   NOPIC  USR  CON  REL  LCL  NOSHR  NOEXE  RD     WRT    NOVEC  PAGE
SATSSF04               00000EFB (  3835.)   06 (  6.)   NOPIC  USR  CON  REL  LCL  NOSHR  EXE    RD     WRT    NOVEC  LONG
```

```
+--------------------------+
! Performance indicators !
+--------------------------+
```

```
Phase                Page faults   CPU Time       Elapsed Time
-----                -----------   --------       ------------
Initialization              37     00:00:00.06    00:00:01.36
Command processing         136     00:00:00.79    00:00:06.42
Pass 1                     485     00:00:15.45    00:00:32.79
```

```
SATSSF04              - SATS SYSTEM SERVICE TESTS  (FAILING S. 16-SEP-1984 00:32:49  VAX/VMS Macro V04-00      Page  49
VAX-11 Macro Run Statistics                                  5-SEP-1984 04:27:42  [UETPSY.SRC]SATSSF04.MAR;1       (2)

Symbol table sort            2      00:00:00.68      00:00:01.08
Pass 2                     281      00:00:04.01      00:00:10.19
Symbol table output         18      00:00:00.13      00:00:00.13
Psect synopsis output        2      00:00:00.03      00:00:00.03
Cross-reference output       0      00:00:00.00      00:00:00.00
Assembler run totals       963      00:00:21.15      00:00:52.01
```

The working set limit was 1650 pages.
80218 bytes (157 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 347 non-local and 160 local symbols.
1088 source lines were read in Pass 1, producing 32 object records in Pass 2.
64 pages of virtual memory were used to define 48 macros.

```
                              +------------------------------+
                              ! Macro library statistics !
                              +------------------------------+


Macro library name                      Macros defined
------------------                      --------------

_$255$DUA26:[SHRLIB]UETP.MLB;1                19
_$255$DUA28:[SYS.OBJ]LIB.MLB;1                0
_$255$DUA28:[SYSLIB]STARLET.MLB;2             23
TOTALS (all libraries)                        42
```

975 GETS were required to define 42 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SATSSF04/OBJ=OBJ$:SATSSF04 MSRC$:SATSSF04/UPDATE=(ENH$:SATSSF04)+EXECML$/LIB+SHRLIB$:UETP/LIB

SATSSF02
LIS

SATSSF03
LIS

SATSSF04
LIS

SATSSF05
LIS